SPECIFICATIONS KF750F

DESCRIPTION

The KF750F 3-way tri-amplified full range system contains many new EAW technologies that make it a powerful concert touring sound reinforcement tool. Its Acoustic Singularity™ design aligns the three subsystems along a single axis so the KF750 acts as a true point source, greatly reducing temporal smearing of transient events and improving overall clarity and impact.

Since the large mid frequency horn contains both the high and low frequency subsystems, the overall package is just 31-in high. Still, the KF750F provides consistent wideband pattern control in both the vertical and horizontal planes.

The LF subsystem includes two vented 12-in woofers mounted in the MF horn's upper and lower walls. This spaced configuration extends vertical directivity well into the LF passband to minimize midbass build up below the array.

The large MF horn loads a specially designed 10-in midrange cone whose geometry exactly matches the rear of its phase plug assembly. By developing the driver and phase plug as a single unit, pathlength discontinuities within the MF passband have been eliminated without compromising the directional qualities of the source.

The 2-in exit/4-in voice coil HF compression driver is mounted on a 35° x 35° constant directivity horn mounted coaxially within the MF horn flare.

The KF750F's 15°-per-side trapezoidal enclosure features eight 4-position flytracks (four each front and rear) that accept industry-standard flyclips.

APPLICATION

The KF750F is designed to create arrays with optimized coverage in both the horizontal and vertical planes to cover audience areas ranging from 200 to 80,000 people.

At just 31-in tall and 190 lb. per module, KF750F arrays are smaller, lighter, more efficient and, therefore, more powerful than those built with other systems. These smaller, lighter arrays are easier to fly, require less truck space and permit more open sight lines to cover any given venue.

The KF750F works with a companion downfill module, the KF755F, to provide full range nearfield coverage below the array. The KF750F's smooth power response produces remarkably even SPL levels throughout the coverage area, allowing it to be used for nearfield coverage when necessary.

Applications include:

Concert Tours
Houses of Worship
Performing Arts Centers
Theaters

PERFORMANCE

Frequency Response (Hz)	
±3 db	48 Hz to 18 kHz
-10 dB	30 Hz
Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
LF	103
MF	109
HF	116
Impedance (Ohms)	
LF	2x 8
MF	8
HF	8
Power Handling, (Watts Continuous)	
LF	2x 600
MF	400
HF	200
Recommended High-Pass Frequency	
24 dB/Octave	35 Hz
Calculated Maximum Output (dB SPL @ 1m)	
LF Peak/Long Term	139/133
MF Peak/Long Term	141/135
HF Peak/Long Term	145/139
Nominal Coverage Angles, -6 dB points (degrees)	
Horizontal	35
Vertical	35

PHYSICAL

Configuration	3-way, full range
Powering	Tri-amplified
LF Subsystem	2x 12-in cones, vented
MF Subsystem	10-in cone, Radial Phase Plug™ horn-loaded
HF Subsystem	2-in exit/4-in voice coil compression driver on CD horn

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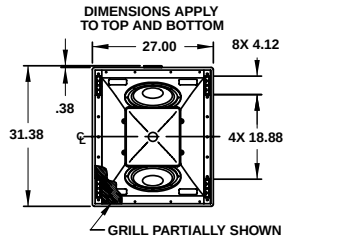
SPECIFICATIONS KF750F

DIMENSIONAL DRAWING

CABINET TO BE SYMMETRICAL ABOUT CENTERLINE DESIGNATIONS.
INDICATES CENTER OF BALANCE.
INDICATES FLY TRACK MOUNTING POINTS.



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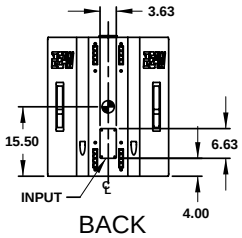

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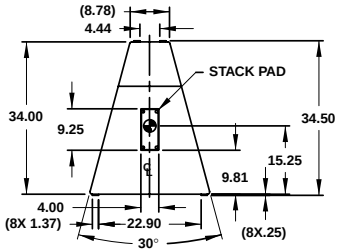
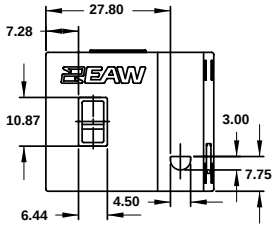


TOP/BOTTOM



SIDES

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Manufacturing tolerances are +/- 0.13 and +/- 1°

PHYSICAL continued

Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic birch plywood
Finish	Black polyurethane
Connectors	2x Neutrik NL8 Speakon
Suspension Hardware	8x 4-position flytrack (4 each front and rear)
Grille	Powder coated perforated steel, foam backed

A & E SPECIFICATIONS

The three-way full range loudspeaker system shall incorporate 2x 12-in LF transducers, a 10-in MF cone transducer and a 2-in exit/4-in voice coil compression driver HF transducer.

The LF drivers shall be mounted in a vented enclosure tuned for optimum low frequency response and separated vertically. The MF driver shall be mounted on a large-format horn and shall be coupled to a phase plug whose geometry exactly matches that of the driver. The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 35° (h) x 35° (v).

System frequency response shall vary no more than ±3 dB from 48 Hz to 18 kHz measured on axis. The loudspeaker's subsystems (LF/MF/HF) shall produce a Sound Pressure Level (SPL) of 103/109/116 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 139/141/145 dB SPL on axis at 1 meter. The subsystems (LF/MF/HF) shall handle 2x 600/400/200 Watts of amplifier power (continuous) and shall have nominal impedances of 2x 8/8/8 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of multi-ply void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black catalyzed polyurethane. Input connectors shall be a 2x Neutrik NL8 Speakon. A total of eight 4-position flytracks (4 each front and rear) shall be provided. The front of the loudspeaker shall be covered with a powdercoated perforated steel grille.

The three-way full range loudspeaker system shall be the EAW model KF750F.

Dimensions	**inches**	**millimeters**
Height	31.0	787
Width (Front)	27.0	686
Width (Rear)	8.8	233
Depth	34.0	864
Trapezoid Angle	15 degrees per side	
Weights	**pounds**	**kilograms**
Net Weight	190	86.5
Shipping Weight	200	91.0
Companion Systems		
Sub Bass	SB750F/SB1000e/KF940	
Full Range Downfill	KF755F	
Accessories	KF700 Series caster pallet	

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